1 BEFORE THE STATE OF WASHINGTON 2 ENERGY FACILITY SITE EVALUATION COUNCIL 3 4 In the Matter of Application No. 2003-01: EXHIBIT 40 SUP (AN-T SUP) 5 SAGEBRUSH POWER PARTNERS, LLC; 6 KITTITAS VALLEY WIND POWER PROJECT 7 8 9 10 APPLICANT'S PREFILED SUPPLEMENTAL DIRECT TESTIMONY 11 **WITNESS # 21: ARNE NIELSEN** 12 13 14 Q Please state your name and business address. 15 16 A My name is Arne Nielsen and my business address is 7660 Whitegate Avenue, Riverside CA 17 92506. 18 19 Q Have you previously filed prepared testimony in this matter? 20 21 Yes. 22 23 Is this testimony given to supplement your prior testimony? Q 24 25

EXHIBIT 40 SUP (AN-T SUP) - 1 ARNE NIELSEN PREFILED SUPPLEMENTAL TESTIMONY DARREL L. PEEPLES, ATTORNEY AT LAW 325 WASHINGTON ST. NE #440 OLYMPIA, WA 98506 TEL. (360) 943-9528 FAX (360) 943-1611 dpeeples@ix.netcom.com

Q.	What is the specific purpose of this supplement to your prior testimony?
A	My previous testimony provided a shadow-flicker analysis for the Kittitas Valley Wind
	Power project for a layout which was revised in late 2005. The project was downsized in
	2005 and I provided a new shadow-flicker analysis report regarding the revised layout.
	This report was provided to Kittitas County in late 2005 as a part of a new land use
	application submitted by Sagebrush Power Partners LLC.
O Would you please identify what has been marked for identification as Fy	Would you please identify what has been marked for identification as Exhibit 40-2 (AN- 2)?
	(xix 2).
A	Exhibit 40-2 (AN-2) is the shadow-flicker analysis that I conducted for the present Kittitas
	Valley Wind Power Project referenced above.
Q	Is the information in this exhibit within your area of authority and /or expertise?
A	Yes.
Q	Is the content of this exhibit based upon your own knowledge, or upon evidence, such as
	studies and reports as reasonably prudent persons in your field and expertise are
	accustomed to rely in the conduct of their affairs?
A	Yes.
EXHIB	IT 40 SUP (AN-T SUP) - 2 DARREL L. PEEPLES, ATTORNEY AT LA
	A Q A Q

1	Q	Is the content of this exhibit accurate?
2		
3	A	Yes.
4		
5	Q	Do you incorporate the facts and content of this exhibit as part of your testimony?
6		
7	A	Yes.
8		
9	Q	Do you sponsor the admission of this exhibit into evidence?
10		
11	A	Yes.
12		Please summarize the conclusions of your shadow flicker analysis regarding the new layout.
13	Q	r lease summarize the concrusions of your shadow mokel analysis regarding the new layout.
14	A	The locations used by the analysis are approximate. The analysis assumed certain locations
15		designated on the turbine layout provided me by the Applicant. The final locations of the
16 17		turbines are assumed to not vary significantly, but will be subject to the micro-siting criteria set
18		out in the testimony of Andrew Young and Chris Taylor. In any event the turbines will never be
19		placed closer than ¼ mile from existing residences.
20		
21		The shadow flicker model assumptions applied to this project are very conservative and as such,
22		the analysis is expected to over-predict the impacts. For example, the model does not take into
23		consideration details of the orientation of structures at the given locations or of the specific
24		placement of windows in those structures. Further, many of the modeled shadow flicker levels
25	ARNE	that would be experienced at houses identified are expected to be of low density. The number IT 40 SUP (AN-T SUP) - 3 NIELSEN LED SUPPLEMENTAL DARREL L. PEEPLES, ATTORNEY AT LAW 325 WASHINGTON ST. NE #440 OLYMPIA, WA 98506 TEL. (360) 943-9528 FAX (360) 943-1611

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TESTIMONY

EXHIBIT 40 SUP (AN-T SUP) - 4 ARNE NIELSEN PREFILED SUPPLEMENTAL TESTIMONY